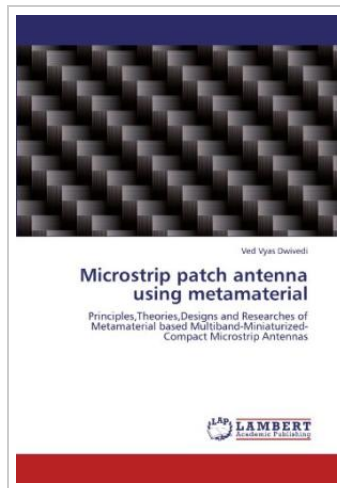



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Microstrip patch antenna using metamaterial

By Dwivedi, Ved Vyas

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Principles, Theories, Designs and Researches of Metamaterial based Multiband-Miniaturized-Compact Microstrip Antennas | Volumetric miniaturization, compactness, light weight, low cost, low loss, improved efficiency, multiband EM responses are basic design-application issues for innovative technique used for microstrip patch antennas (MSA). Current trend in modern researches is to use double negative metamaterial as substrate to meet the stringent requirements. MSAs inherently have narrow bandwidth. The Size reduction and BW enhancement are usually majorly demanded considerations for practical applications. Future mobile communication systems require smaller antenna to meet the miniaturization requirements. Significant progress in compact MSAs design with broadband, multi-frequency, multi-polarized, multi-band, circularly polarized and gain-enhanced operations to achieve miniaturization, compact and broadband operations are reported. Various broadband MSA designs for dual/ tri-frequency/band circularly polarized operations are produced. This book studies the principles, theories, categories, depth of researches, design-applications-fabrication issues and analysis of metamaterials based MSAs. Designing microwave regime MSA using unit cell is discussed for aspirants along with exhaustive reference list. | Format: Paperback | Language/Sprache: english | 340 gr | 223x151x15 mm | 244 pp.



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